

#### ABSTRACT OF THE DISCLOSURE

A differential impulse conveyor having a conveyor motor which uses bellows to provide the driving force for the conveyor. The conveyor includes a housing within which is mounted the conveyor motor. The conveyor motor has a pair of bellows, a drive plate and a fluid control system. The drive plate is movably mounted between the bellows. The conveyor plate is mounted to the top end of the drive plate. The fluid control system includes a main control valve, a pair of limit switches, a pair of valves and a flow control valve. The fluid control system allows for inflation of one bellow at a greater rate than inflation of the other bellow.